QC ABSTRACT

NAME OF WORK: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

Sl.NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Drain Bottom Concrete M20	Compressive Strength(7days and 28days)	5 set /51-100 cum	109.62	10	10
8	Drain Side Wall Concrete M20	Compressive Strength(7days and 28days)	6 set /100-150 cum	156.6	12	12
9	Culvert Concrete M20	Compressive Strength(7days and 28days)	3 set /16-30 cum	23.53	6	6
10	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Core Compressive Strength	One Test		1	1
11	Precast (250mm)	Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-02-03-93** **Date: 11-11-19**

Project Name : Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : EE(Project)Ynk Zone/WO/66/2019-20

Date of Receipt : 07-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 08-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.03%	–
2	Finess by Air permeablity method (m^2/kg,Min)	263.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

: CP-2020-02-03-93 **Date: 06-12-19**

: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: EE(Project)Ynk Zone/WO/66/2019-20

: 07-11-19

: Birla Super 53grade

: IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

: 08-11-19

Conditions during : Temperature: 26°C
Humidity: 72%

Compressive Strength

Physical properties	Results	Requirement as per IS 12269: 2013
3 Days	28.5N/mm^2	Not less than 27 N/mm^2
7 Days	39.0N/mm^2	Not less than 37 N/mm^2
28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2020-02-03-93 **Date: 11-11-19**
Project Name	:	Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	EE(Project)Ynk Zone/WO/66/2019-20
Date of Receipt	:	07-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	176	176	1.2	98.8	90-100
3	20 mm	7145	7321	48.8	51.2	30-70
4	10 mm	5695	13016	86.8	13.2	10-35
5	4.75 mm	1709	14725	98.2	1.8	0-5
6	Pan	275	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-02-03-93 Date: 11-11-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.8	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.23	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2020-02-03-93 **Date: 09-11-19**
Project Name	:	Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	EE(Project)Ynk Zone/WO/66/2019-20
Date of Receipt	:	07-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

: CP-2020-02-03-93 **Date: 09-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	22.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 09-11-19

: CP-2020-02-03-93

: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: EE(Project)Ynk Zone/WO/66/2019-20

: 07-11-19

: Fine Aggregate

: IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

: 07-11-19

: 1000 grams

Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
					Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
10 mm	0	0	0.0	100.0	100	100	100	100
4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
2.36 mm	57	86	8.6	91.4	60-95	75-100	85-100	95-100
1.18 mm	252	338	33.8	66.2	30-70	55-90	75-100	90-100
600 micron	203	541	54.1	45.9	15-34	35-59	60-79	80-100
300 micron	229	770	77.0	23.0	5-20	8-30	12-40	15-50
150 micron	181	951	95.1	4.9	0-10	0-10	0-10	0-15
Pan	49	1000	100.0	0.0	---	---	---	---

: The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Date: 09-11-19

: CP-2020-02-03-93

PHYSICAL PROPERTIES

Tests	Result	Requirements as per IS 383:2016
Water Absorption(%)	1.5	–
Specific Gravity	2.59	–
Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Date: 13-11-19

: **CP-2020-02-03-93**

Name : Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

mer's Reference : EE(Project)Ynk Zone/WO/66/2019-20

f Receipt : 12-11-19

e Type : Sunvik

me to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

f Test : 12-11-19

Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
		(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	16	1.582	568	697	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 23-11-19

: **CP-2020-02-03-93**

: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : EE(Project)Ynk Zone/WO/66/2019-20

: 19-11-19

Size : Precast Cover Slab (100mm)

IRS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

: 19/11/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.12	100.65	1.126	4431	81.5	18.4	17.1	21.4
Cover Slab-2	75.54	100.39	1.112	4481	80.9	18.1	16.8	21.0
Cover Slab-3	75.49	100.23	1.128	4475	81.3	18.2	16.9	21.1

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TEST REPORT OF PRECAST COVER SLAB

Date: 23-11-19

: **CP-2020-02-03-93**

: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : EE(Project)Ynk Zone/WO/66/2019-20

: 19-11-19

Size : Precast Cover Slab (250mm)

IRS-codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

: 19/11/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	200.12	250.65	3.126	31448	241.5	7.7	7.1	8.9
Cover Slab-2	200.54	250.39	3.112	31580	240.9	7.6	7.1	8.9
Cover Slab-3	200.49	250.23	3.128	31564	241.3	7.6	7.1	8.9

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 28-11-19

: CP-2020-02-03-93

: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

eference : EE(Project)Ynk Zone/WO/66/2019-20

: 24-11-19

Size : CC Kerb Stone/ 450*165*400mm

IS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

: 24/11/2019

ification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/11/2019

: CP-2020-02-03-93

: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: EE(Project)Ynk Zone/WO/66/2019-20

: 18-11-19

: Drain Bottom Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 23/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Concrete	M20	16/11/2019	23/11/2019	150.14 X 149.19 X 149.78	22400	8.982	405.6	18.1	18.2
Drain Bottom Concrete	M20	16/11/2019	23/11/2019	150.73 X 150.29 X 151.50	22654	8.699	420.7	18.6	
Drain Bottom Concrete	M20	16/11/2019	23/11/2019	150.87 X 151.53 X 150.89	22862	8.679	411.6	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/12/2019

: CP-2020-02-03-93

: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : EE(Project)Ynk Zone/WO/66/2019-20

ipt : 18-11-19

: Drain Bottom Concrete

ge Size : 150X150X150 mm

ulus Age : M20 / 28 Days Compressive Strength

n BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 14/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Concrete	M20	16/11/2019	14/12/2019	149.16 X 149.31 X 149.60	22270	8.944	530.6	23.8	23.1
Drain Bottom Concrete	M20	16/11/2019	14/12/2019	149.59 X 150.42 X 151.43	22501	8.448	504.7	22.4	
Drain Bottom Concrete	M20	16/11/2019	14/12/2019	151.71 X 149.82 X 149.05	22730	8.850	526.8	23.2	

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